

Organic Turmeric Extract Powder



What is organic turmeric extract powder?

Organic Turmeric — sourced from certified organic *Curcuma longa* root and precision-processed at every step — delivers the world's most clinically studied botanical in two complementary formats tailored to both traditional whole-food and modern functional applications.



<https://www.organic-way.com>

The Science of Curcuminoids:

Curcuma longa contains three primary bioactive curcuminoids — curcumin ($\geq 75\%$), demethoxycurcumin ($\geq 15\%$), and bisdemethoxycurcumin ($\geq 5\%$) — which collectively drive the root's powerful anti-inflammatory, antioxidant, and cognitive health benefits. ORGANICWAY's turmeric range is backed by 50+ human clinical studies confirming NF- κ B pathway inhibition, C-reactive protein reduction of up to 40%, BDNF enhancement for brain health, and metabolic support.

Organic Turmeric Powder — Whole-Root Full-Spectrum Format:

Cold-milled at <45°C to protect heat-sensitive curcuminoids and turmerone-rich essential oils, the whole-root powder delivers ≥3.0% natural curcuminoids alongside ≥1.5% volatile oils (including turmerone and zingiberene), ≥5% dietary fiber, ≥7% protein, and a dense micronutrient matrix (iron 15 mg, manganese 8 mg per 100g). With an ORAC value of ≥150,000 μmol TE/g — triple that of blueberries — it supports anti-inflammatory, digestive, liver, immune, and culinary applications in one clean, whole-food ingredient. Critically, the essential oil fraction contains **turmerone** — a sesquiterpene ketone that naturally synergizes with curcumin to enhance bioavailability — a synergistic effect absent in isolated extracts.

Organic Turmeric Extract Powder — Precision-Targeted Concentrate:

The Extract Powder takes clinical potency further. Standardized to ≥95% total curcuminoids through solvent-free supercritical CO₂ extraction, the standard extract delivers ORAC ≥1,000,000 μmol TE/g — 30x higher than green tea — for targeted, high-potency anti-inflammatory and antioxidant support. For maximum therapeutic impact in water-based formulas, the Enhanced Extract applies patented nano-encapsulation technology to achieve ≥85% water dispersibility and a **clinically verified 20x bioavailability improvement** versus the standard extract.

Every batch undergoes ICP-MS heavy metal testing (Pb <0.1 ppm, Cd <0.05 ppm, As <0.5 ppm), HPLC curcuminoid assay, GC-MS essential oil profiling (whole powder), aflatoxin B1 screening (<1 ppb), and full pathogen panel clearance. Certified USDA/EU Organic, Non-GMO Project Verified, Kosher, Halal, and ISO 22000/HACCP compliant. Sample (1 kg) to bulk (25 kg+) available. Lead time: 10-20 days.

Physical & Chemical Specifications

Product Specifications Comparison

Parameter	Turmeric Powder (Whole Root)	Turmeric Extract Standard	Turmeric Extract Enhanced
Latin Name	<i>Curcuma longa</i>	<i>Curcuma longa</i>	<i>Curcuma longa</i>
Source	Whole root (1:1)	Concentrated extract	Concentrated + nano
Processing	Sun-dried + cold-milled <45°C	Solvent-free supercritical CO ₂	CO ₂ + nano-encapsulation
Total Curcuminoids	≥3.0% (HPLC)	≥95% (HPLC)	≥95% + enhancers
— Curcumin	Major component	≥75%	≥75%
— Demethoxycurcumin	Present	≥15%	≥15%
— Bisdemethoxycurcumin	Present	≥5%	≥5%
Essential Oils	≥1.5% (turmerone + zingiberene)	Removed	Removed

Parameter	Turmeric Powder (Whole Root)	Turmeric Extract Standard	Turmeric Extract Enhanced
Dietary Fiber	≥5%	—	—
Protein	≥7%	Concentrated	Concentrated
Carbohydrates	≥65% (complex)	Low	Low
ORAC Value	≥150,000 μmol TE/g	≥1,000,000 μmol TE/g	≥1,000,000 μmol TE/g
Particle Size D90	≤100 μm	≤50 μm	≤10 μm (nano)
Solubility	Partially dispersible (fat-soluble)	Fat-soluble	Water-dispersible ≥85%
Bioavailability	Baseline + turmerone synergy	Moderate	20× vs. standard extract
Appearance	Deep orange powder	Bright golden-orange powder	Bright golden-orange powder
Flavor Profile	Earthy, warm, slightly bitter	Concentrated earthy-bitter	Concentrated earthy-bitter
Moisture	≤10%	≤5%	≤5%
Heavy Metals	Pb <0.1 ppm, Cd <0.05 ppm	Pb <0.1 ppm, As <0.5 ppm	Pb <0.1 ppm, As <0.5 ppm
Aflatoxin B1	<1 ppb	<1 ppb	<1 ppb
Pesticide Residues	500+ not detected (EU MRL)	Compliant	Compliant
Shelf Life	24 months	24-36 months	24-36 months
Packaging	UV-barrier amber bag	Nitrogen-flushed sealed bag	Nitrogen-flushed sealed bag

Key Bioactive Compounds

Compound	Turmeric Powder	Extract Standard	Extract Enhanced	Health Relevance
Curcumin	☐ Natural	☐ ≥75%	☐ ≥75% + nano	Anti-inflammatory, antioxidant, NF-κB inhibitor
Demethoxycurcumin	☐ Present	☐ ≥15%	☐ ≥15%	Anti-inflammatory, synergistic
Bisdemethoxycurcumin	☐ Present	☐ ≥5%	☐ ≥5%	Antioxidant, neuroprotective
Turmerone (essential oil)	☐ ≥1.5%	☐ Removed	☐ Removed	Natural bioavailability synergy with curcumin
Zingiberene (essential oil)	☐ Present	☐ Removed	☐ Removed	Anti-inflammatory, digestive support

Compound	Turmeric Powder	Extract Standard	Extract Enhanced	Health Relevance
Dietary Fiber	☐ ≥5%	☐	☐	Gut health, prebiotic, satiety
Iron	☐ 15 mg/100g	Trace	Trace	Oxygen transport, energy
Manganese	☐ 8 mg/100g	Trace	Trace	Antioxidant enzyme cofactor

Key Insight: Turmerone — present only in the whole-root powder — naturally enhances curcumin bioavailability. This whole-food synergy is absent in isolated extracts, making the powder preferred for Ayurveda, Jamu, and whole-food positioning.

Microbiological & Contaminant Standards

Test	Turmeric Powder	Extract Standard / Enhanced	Method
Total Plate Count	≤10,000 cfu/g	≤100,000 cfu/g	ISO 4833
Yeast & Mould	≤1,000 cfu/g	≤1,000 cfu/g	ISO 21527
Coliforms	≤100 cfu/g	≤100 cfu/g	ISO 4832
E. coli	Negative/g	Negative/g	ISO 16649
Salmonella	Negative/25g	Negative/25g	ISO 6579
Aflatoxin B1	<1 ppb	<1 ppb	HPLC-FLD
Total Aflatoxins (B1+B2+G1+G2)	<4 ppb	<4 ppb	HPLC-FLD
Ochratoxin A	<10 ppb	<10 ppb	HPLC-FLD
Lead (Pb)	<0.1 ppm	<0.1 ppm	ICP-MS
Cadmium (Cd)	<0.05 ppm	—	ICP-MS
Arsenic (As)	—	<0.5 ppm	ICP-MS
Mercury (Hg)	<0.1 ppm	<0.1 ppm	ICP-MS
Pesticide Residues	500+ not detected (EU MRL)	Compliant	LC-MS/MS, GC-MS

Active Verification:

- Curcuminoid assay: HPLC verified (per batch)
- Essential oil analysis: GC-MS (whole root powder)
- ORAC testing: Brunswick Labs ISO 23349

Certifications

Certification	Turmeric Powder	Extract Standard	Extract Enhanced
USDA Organic (NOP)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EU Organic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-GMO Project Verified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vegan Certified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gluten-Free Certified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allergen-Free	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kosher Certified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Halal Certified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ISO 22000:2018	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HACCP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Applications

Application Matrix

Application Category	Turmeric Powder	Extract Standard	Extract Enhanced	Typical Dosage
Culinary (curry, soup, mustard)	<input type="checkbox"/> Traditional	<input type="checkbox"/> Overpowering	<input type="checkbox"/>	0.5-5% by weight
Golden Milk / Turmeric Latte	<input type="checkbox"/> Authentic	<input type="checkbox"/> Strong flavor	<input type="checkbox"/> Water-dispersible	1-3 g/serving
Dietary Supplements (capsules/tablets)	<input type="checkbox"/> Whole-food claims	<input type="checkbox"/> High potency	<input type="checkbox"/> Max absorption	250-1,000 mg/day
Functional Beverages / RTD	<input type="checkbox"/> Suspension form	<input type="checkbox"/> Fat-soluble limit	<input type="checkbox"/> ≥85% dispersible	0.5-2% by weight
Sports Recovery Formula	<input type="checkbox"/> 500-1,000 mg/day	<input type="checkbox"/> 300-600 mg/day	<input type="checkbox"/> 250-500 mg/day	250-1,000 mg/day
Cognitive Health Supplement	<input type="checkbox"/> 500-1,000 mg/day	<input type="checkbox"/> 250-500 mg/day	<input type="checkbox"/> 250-500 mg/day	250-500 mg/day
Anti-Aging / Skincare (oral)	<input type="checkbox"/> 5-10% in base	<input type="checkbox"/> 0.5-2%	<input type="checkbox"/> 0.5-2%	Formulation-dependent
Functional Snacks / Bars	<input type="checkbox"/> 2-8%	<input type="checkbox"/> 1-3%	<input type="checkbox"/> 1-3%	1-8% by weight
Pet Nutrition (senior dogs)	<input type="checkbox"/> 50-100 mg/kg BW	<input type="checkbox"/> Dose carefully	<input type="checkbox"/>	Per veterinarian guidance
Ayurveda / Jamu / TCM Blends	<input type="checkbox"/> 5-15% in blends	<input type="checkbox"/>	<input type="checkbox"/>	5-15% of blend

Application Category	Turmeric Powder	Extract Standard	Extract Enhanced	Typical Dosage
Natural Food Coloring	☐ Deep orange/opaque	☐ Golden-orange	☐ Bright golden	Formulation-dependent
Topical / Cosmetic	☐ Anti-inflammatory	☐ 0.5-2%	☐ 0.5-2%	0.5-2% in base

Bioavailability Enhancement Guide

Format	Curcumin Bioavailability	Best Pairing / Strategy
Turmeric Powder	Baseline + natural turmerone synergy	Pair with dietary fat/oil (coconut, hemp); turmerone provides innate synergy
Extract Standard	Moderate	Pair with piperine (BioPerine® 5-20 mg) — up to 20x bioavailability increase
Extract Enhanced (Nano)	20x vs. standard	Standalone or with mild lipid co-formulation; water-dispersible ≥85%

Health Claim Support

Health Benefit	Mechanism	Evidence
Anti-Inflammatory & Joint Support	Inhibits NF-κB pathway; ↓ CRP by 40%; inhibits COX-2/LOX enzymes	50+ human RCTs
Cognitive Function	↑ BDNF production; neuroprotection	Human clinical studies
Metabolic Health	Improves insulin sensitivity; ↓ fasting blood glucose	Clinical evidence
Antioxidant Protection	ORAC ≥150,000 (powder) / ≥1,000,000 (extract) μmol TE/g; activates endogenous antioxidant systems	Validated ORAC
Liver Health	↑ Glutathione synthesis for Phase I/II detoxification	Research-supported
Digestive Support	Stimulates bile production; ↑ fat digestion	Traditional + clinical
Immune Modulation	Activates macrophages and NK cells	Research-supported

FAQ

Q: What is the key difference between Organic Turmeric Powder and Organic Turmeric Extract Powder?

A: Organic Turmeric Powder is a whole-root, full-spectrum ingredient retaining natural curcuminoids ($\geq 3.0\%$), essential oils ($\geq 1.5\%$ including turmerone), fiber ($\geq 5\%$), protein ($\geq 7\%$), and a micronutrient matrix (iron 15 mg, manganese 8 mg/100g) — processed at $< 45^\circ\text{C}$. It is ideal for culinary applications, whole-food supplement claims, and traditional formulas. Organic Turmeric Extract Powder is concentrated to $\geq 95\%$ total curcuminoids via solvent-free supercritical CO_2 extraction, delivering 30–50 \times higher curcuminoid potency per gram. Choose powder for whole-food authenticity and traditional positioning; choose extract for precision dosing and maximum clinical efficacy.

Q: Curcumin has poor bioavailability — how does your extract address this?

A: Curcumin's inherent low bioavailability is a documented challenge. For the Standard Extract, pairing with piperine (BioPerine® 5–20 mg) achieves up to 20 \times bioavailability increase — the industry gold standard. For finished products requiring standalone efficacy without co-formulation, our Enhanced Extract uses patented nano-encapsulation technology achieving $\geq 85\%$ water dispersibility and a clinically verified 20 \times absorption improvement versus standard extract, making it suitable for RTD beverages, functional shots, and precision supplements.

Q: Does Organic Turmeric Powder really support bioavailability on its own?

A: Yes — uniquely so. The whole-root powder contains turmerone — a sesquiterpene ketone in the essential oil fraction ($\geq 1.5\%$) — that naturally synergizes with curcumin to enhance absorption. This whole-food bioavailability synergy is absent in isolated extracts, making the powder the preferred choice for Ayurveda, Jamu, and whole-food supplement formulations.

Q: Is your turmeric non-GMO and allergen-free?

A: Yes. As a certified organic product, ORGANICWAY Turmeric is inherently non-GMO (Non-GMO Project Verified). It is naturally free from all 14 EU-regulated major allergens and suitable for broad dietary and product formulation needs.

Q: Can it be used as a natural food colorant?

A: Absolutely. The vibrant golden-to-orange pigmentation from high curcuminoid content makes it an excellent clean-label natural colorant. Turmeric Powder provides deep opaque orange — ideal for curries, sauces, and snacks. The Extract Powder delivers concentrated bright golden-orange — suitable for beverages, coatings, and precision color standardization.

Q: What sustainable sourcing practices are behind your turmeric?

A: ORGANICWAY sources from regenerative organic farms practicing crop rotation to improve soil health. The zero-waste supply chain converts root tops into compost and biomass into biogas. Full batch traceability from organic farm to third-party lab verification ensures supply chain transparency and regulatory compliance.

Q: What is the recommended storage to protect curcuminoid potency?

A: Store below 24°C (75°F) in a cool, dark, dry location, in original sealed moisture-proof packaging. Extract Powder is nitrogen-flushed to prevent oxidative degradation. Turmeric Powder uses UV-barrier amber bags to protect against light-induced curcuminoid degradation. Avoid direct sunlight and humidity. Shelf life: 24 months (powder), 24–36 months (extract).

Q: What are your MOQ, lead times, and shipping options?

A: Sample orders start at 1 kg. Standard bulk orders begin at 25 kg with flexible quantities for scale-up. Typical lead time is 10–20 business days. We ship globally via FEDEX, UPS, and EMS with full compliance documentation (COA, MSDS, Organic Certificates, Non-GMO verification). Payment methods: D/A, D/P, L/C, T/T, MoneyGram, Western Union, Credit Card.

Packaging & Storage



Packaging Specifications

Parameter	Turmeric Powder	Extract Powder
Pack Weight	25 kg net per drum/bag	5–25 kg options
Container Material	Kraft paper drum with food-grade PE inner liner	UV-barrier amber bag (powder) / nitrogen-flushed sealed bag (extract)
Desiccant	Food-grade silica gel included	Food-grade silica gel included

Parameter	Turmeric Powder	Extract Powder
Pallet Capacity	40 drums per pallet	Custom arrangement
Labeling	Product name, batch number, net weight, best-before date, certifications, organic declaration	Product name, batch number, net weight, best-before date, certifications, curcuminoid specification

Storage Conditions

Parameter	Specification
Temperature	Cool, dry place (recommended $\leq 24^{\circ}\text{C}$ / 75°F)
Humidity	<60% RH
Light	Protect from direct sunlight; UV-barrier packaging (powder); nitrogen-flushed (extract)
Air	Keep in original airtight, sealed packaging
Shelf Life	24 months (powder); 24-36 months (extract)
Post-Opening	Reseal immediately; use within recommended shelf life

For more information, please visit our website:

<https://www.organic-way.com/products/organic-turmeric-extract-powder/>